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1. Database principles: A mapping mechanism to support bitmap index and other auxiliary structures on tables stored as primary B±-trees

Eugene Inseok Chong, Chuck Freiwald, Anh-Tuan Tran, Jagannathan Srinivasan, Aravind Yalamanchi, Ramkumar Krishnan, Souripriya Das, Mahesh Jagannath, Richard Jiang June 2003 ACM SIGMOD Record, Volume 32 Issue 2

Full text available: pdf(198.55 KB) Additional Information: full citation, abstract, references

Any auxiliary structure, such as a bitmap or a B+-tree index, that refers to rows of a table stored as a primary B+-tree (e.g., tables with clustered index in Microsoft SQL Server, or index-organized tables in Oracle) by their physical addresses would require updates due to inherent volatility of those addresses. To address this problem, we propose a mapping mechanism that 1) introduces a single mapping table, with each row holding one key value from the prima ...

² Functional-join processing

R. Braumandl, J. Claussen, A. Kemper, D. Kossmann

February 2000 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 8 Issue 3-4

Full text available: pdf(486.22 KB) Additional Information: full citation, abstract, index terms

Inter-object references are one of the key concepts of object-relational and object-oriented database systems. In this work, we investigate alternative techniques to implement interobject references and make the best use of them in query processing, i.e., in evaluating functional joins. We will give a comprehensive overview and performance evaluation of all known techniques for simple (single-valued) as well as multi-valued functional joins. Furthermore, we will describe special order-preser ...

Keywords: Functional join, Logical OID, Object identifier, Order-preserving join, Physical OID, Pointer join, Query processing

Automatic generation of cells for recurrence structures

Avinoam Bilgory, Daniel D. Gajski

June 1981 Proceedings of the eighteenth design automation conference on Design automation

Full text available: pdf(478.55 KB) Additional Information: full citation, abstract, references, index terms

This paper describes a method for automatic translation of functional into structural descriptions for Boolean recurrence systems. The solution of a recurrence system is accomplished by a networthat requires at most four different type of cells. Given any Boolean recurrence of any order, the cell generator module defines the Boolean equations of these cells.

Keywords: Boolean-recurrence solvers, Gate compilers, Logic-design automation

4 <u>Industry session 3: database performance and interface: A mapping mechanism to support bitmap index and other auxiliary structures on tables stored as primary B±-trees</u>

Eugene Inseok Chong, Jagannathan Srinivasan, Souripriya Das, Chuck Freiwald, Aravind Yalamanchi, Mahesh Jagannath, Anh-Tuan Tran, Ramkumar Krishnan, Richard Jiang November 2002 Proceedings of the eleventh international conference on Information and knowledge management

Full text available: pdf(63.19 KB) Additional Information: full citation, abstract, references, index terms

Any auxiliary structure, such as a bitmap or a B*-tree index, that refers to rows of a table stored as a primary B*-tree (e.g., tables with clustered index in Microsoft SQL Server, or index-organized tables in Oracle) by their physical addresses would require updates due to inherent volatility of those addresses. To address this problem, we propose a mapping mechanism that 1) introduces a single mapping table, with each row holding one key value from th ...

Keywords: bitmap indexes, mapping mechanism, primary B⁺-trees

⁵ File organizations and access methods for CLV disks

S. Christodoulakis, D. A. Ford

May 1989 ACM SIGIR Forum, Proceedings of the 12th annual international ACM SIGIR conference on Research and development in information retrieval, Volume 23 Issue 1-2

Full text available: pdf(1.08 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

A large and important class of optical disc technology are CLV format discs such as CD ROM and WORM. In this paper, we examine the issues related to the implementation and performance of several different file organizations on CLV format optical discs such as CD ROM and WORM. The organizations examined are based on hashing and trees. The CLV recording scheme is shown to be a good environment for efficiently implementing hashing. Single seek access and storage utilization levels a ...

⁶ Optimizing multidimensional index trees for main memory access

Kihong Kim, Sang K. Cha, Keunjoo Kwon

May 2001 ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data, Volume 30 Issue 2

Full text available: pdf(243.75 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

Recent studies have shown that cache-conscious indexes such as the CSB+-tree outperform conventional main memory indexes such as the T-tree. The key idea of these cache-conscious indexes is to eliminate most of child pointers from a node to increase the fanout of the tree. When the node size is chosen in the order of the cache block size, this pointer elimination effectively reduces the tree height, and thus improves the cache behavior of the index. However, the pointer elimination cannot be ...

7 Query evaluation techniques for large databases Goetz Graefe June 1993 ACM Computing rveys (CSUR), Volume 25 Issue 2



Full text available: pdf(9.37 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

Research sessions: path indexing: Accelerating XPath location steps

Torsten Grust

June 2002 Proceedings of the 2002 ACM SIGMOD international conference on Management of data

Full text available: pdf(1.12 MB) Additional Information: full citation, abstract, references

This work is a proposal for a database index structure that has been specifically designed to support the evaluation of XPath queries. As such, the index is capable to support *all* XPath axes (including ancestor, following, preceding-sibling, descendant-or-self, *etc.*). This feature lets the index stand out among related work on XML indexing structures which had a focus on regular path expressions (which correspond to the XPath axes children and descendant-or-self plus name tests). I ...

9 Special system-oriented section: the best of SIGMOD '94: QuickStore: a high performance mapped object store

Seth J. White, David J. DeWitt

October 1995 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 4 Issue 4

Full text available: pdf(2.58 MB)

Additional Information: full citation, abstract, references

QuickStore is a memory-mapped storage system for persistent C++, built on top of the EXODUS Storage Manager. QuickStore provides fast access to in-memory objects by allowing application programs to access objects via normal virtual memory pointers. This article presents the results of a detailed performance study using the OO7 benchmark. The study compares the performance of QuickStore with the latest implementation of the E programming language. The QuickStore and E systems exemplify the two ba ...

Keywords: benchmark, client-server, memory-mapped, object-oriented, performance, pointer swizzling

¹⁰ Design of the Mneme persistent object store

J. Eliot B. Moss

April 1990 ACM Transactions on Information Systems (TOIS), Volume 8 Issue 2

Full text available: pdf(3.22 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

The Mneme project is an investigation of techniques for integrating programming language and database features to provide better support for cooperative, information-intensive tasks such as computer-aided software engineering. The project strategy is to implement efficient, distributed, persistent programming languages. We report here on the Mneme persistent

object store, a fundament component of the project, discussing lesign and initial prototype. Mneme stores objects

11 Performance comparison of property map and bitmap indexing

Ashima Gupta, Karen C. Davis, Jennifer Grommon-Litton

November 2002 Proceedings of the fifth ACM international workshop on Data Warehousing and OLAP

Full text available: pdf(250.60 KB) Additional Information: full citation, abstract, references, index terms

A data warehouse is a collection of data from different sources that supports analytical querying. A Bitmap Index (BI) allows fast access to individual attribute values that are needed to answer a query by representing the values of an attribute for all tuples separately, as bit strings. A Property Map (PMap) is a multidimensional indexing technique that pre-computes attribute expressions, called properties, for each tuple and stores the results as bit strings [DD97, LD02]. This paper compares t ...

Keywords: bitmap index, data warehouse, performance study

12 Scalable high-speed prefix matching

Marcel Waldvogel, George Varghese, Jon Turner, Bernhard Plattner
November 2001 ACM Transactions on Computer Systems (TOCS), Volume 19 Issue 4

Full text available: pdf(933.02 KB) Additional Information: full citation, abstract, references, index terms

Finding the longest matching prefix from a database of keywords is an old problem with a number of applications, ranging from dictionary searches to advanced memory management to computational geometry. But perhaps today's most frequent best matching prefix lookups occur in the Internet, when forwarding packets from router to router. Internet traffic volume and link speeds are rapidly increasing; at the same time, a growing user population is increasing the size of routing tables against which $p \dots$

Keywords: collision resolution, forwarding lookups, high-speed networking

13 Data structures for efficient broker implementation

Anthony Tomasic, Luis Gravano, Calvin Lue, Peter Schwarz, Laura Haas July 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 3

Full text available: pdf(316.45 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

With the profusion of text databases on the Internet, it is becoming increasingly hard to find the most useful databases for a given query. To attack this problem, several existing and proposed systems employ brokers to direct user queries, using a local database of summary information about the available databases. This summary information must effectively distinguish relevant databases and must be compact while allowing efficient access. We offer evidence that one broker, GIOSS

Keywords: GIOSS, broker architecture, broker performance, distributed information, grid files, partitioned hashing

Building a scaleable geo-spatial DBMS: technology, implementation, and evaluation Jignesh Patel, JieBing Yu, Navin Kabra, Kristin Tufte, Biswadeep Nag, Josef Burger, Nancy Hall, Karthikeyan Ramasamy, Roger Lueder, Curt Ellmann, Jim Kupsch, Shelly Guo, Johan Larson, David De Witt, Jeffrey Naughton

June 1997 ACM SIGMOD Record, Proceedings of the 1997 ACM SIGMOD international conference on Management of data, Volume 26 Issue 2

Full text available: pdf(1.58 MB)

Additional Information: full citation, abstract, references, citings, index

term



This paper presents a number of new techniques for parallelizing geo-spatial database systems and discusses their implementation in the Paradise object-relational database system. The effectiveness of these techniques is demonstrated using a variety of complex geo-spatial queries over a 120 GB global geo-spatial data set.

15 Goal-oriented buffer management revisited

Kurt P. Brown, Michael J. Carey, Miron Livny

June 1996 ACM SIGMOD Record, Proceedings of the 1996 ACM SIGMOD international conference on Management of data, Volume 25 Issue 2

Full text available: pdf(1.56 MB)

Additional Information: full citation, abstract, references, index terms

In this paper we revisit the problem of achieving multi-class workload response time goals by automatically adjusting the buffer memory allocations of each workload class. We discuss the virtues and limitations of previous work with respect to a set of criteria we lay out for judging the success of any goal-oriented resource allocation algorithm. We then introduce the concept of *hit rate concavity* and develop a new goal-oriented buffer allocation algorithm, called *Class Fencing*, th ...

16 Extensions to Starburst: objects, types, functions, and rules

Guy M. Lohman, Bruce Lindsay, Hamid Pirahesh, K. Bernhard Schiefer October 1991 **Communications of the ACM**, Volume 34 Issue 10

Full text available: pdf(5.21 MB)

Additional Information: full citation, references, citings, index terms

Keywords: Extended relational database management systems, Starburst, extensible database management systems

17 B-trees: bearing fruits of all kinds

Beng Chin Ooi, Kian-Lee Tan

January 2002 Australian Computer Science Communications, Proceedings of the thirteenth Australasian conference on Database technologies - Volume 5, Volume 24 Issue 2

Full text available: pdf(872.95 KB) Additional Information: full citation, abstract, references, index terms

Index structures are often used to support search operations in large databases. Many advanced database application domains such as spatial databases, multimedia databases, temporal databases, and object-oriented databases, call for index structures that are specially designed and tailored for the domains. Interestingly, in each of these domains, we find methods that are based on one distinct structure --- the B-tree. Invented some thirty years ago, the B-tree has been challenged repeatedly, but ...

Keywords: b-tree, high-dimensional databases, main memory databases, multimedia databases, spatial databases

¹⁸ An asymptotically optimal multiversion B-tree

Bruno Becker, Stephan Gschwind, Thomas Ohler, Bernhard Seeger, Peter Widmayer
December 1996 The VLDB Journal — The International Journal on Very Large Data
Bases, Volume 5 Issue 4

Full text available: pdf(151.97 KB) Additional Information: full citation, abstract

In a variety of applications, we need to keep track of the development of a data set over time. For maintaining and querying these multiversion data efficiently, external storage structures are an absolute necessity. We propose a multiversion B-tree that supports insertions and deletions desired items at the current version and respective queries and exact match queries for any version, current or past. Our multiversion B-tree is asymptotically optimal in the sense that the time and space bounds are ...

Keywords: Access methods, Information systems, Physical design, Versioned data

19 Utilization of B-trees with inserts, deletes and modifies

T. Johnson, D. Shasha

March 1989 Proceedings of the eighth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems

Full text available: pdf(1.07 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

The utilization of B-tree nodes determines the number of levels in the B-tree and hence its performance. Until now, the only analytical aid to the determination of a B-tree's utilization has been the analysis by Yao and related work. Yao showed that the utilization of B-tree nodes under pure inserts was 69%. We derive analytically and verify by simulation the utilization of B-tree nodes constructed from N inserts followed by M modifies (where M

20 B-trees: Compact B-trees

Arnold L. Rosenberg, Lawrence Snyder

May 1979 Proceedings of the 1979 ACM SIGMOD international conference on Management of data

Full text available: pdf(928.31 KB) Additional Information: full citation, abstract, references

A B-tree is *compact* if it is minimal in number of nodes, hence has optimal space utilization, among equally capacious B-trees of the same order. The space utilization of compact B-trees is analyzed and is compared with that of noncompact B-trees and of (node)-visit-optimal B-trees, which minimize the expected number of nodes visited per key access. Compact B-trees can be as much as a *factor* of 2.5 more space-efficient than visit-optimal B-trees; and the node-visit cost of a compact ...

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Pond: the OceanStore Prototype - Rhea, Eaton, Geels, Weatherspoon.. (2003) (Correct) (3 citations) by an active GUID, or AGUID. Each version is a B-tree> of read-only blocks child pointers are secure object is stored in a data structure similar to a B-tree>, in which a block references each child by a oceanstore.cs.berkeley.edu/publications/papers/compressed/fast2003-pond.ps.gz

Information Fusion in Biometrics - Ross, Jain, Qian (2001) (Correct) (3 citations)
4 11,021 Impostor 72 10,953 (a) C5.0 Decision Tree. b) Linear Discriminant classifier. Table 1. the performance of the (a) C5.0 Decision Tree, and (b) Linear Discriminant classifier, on an biometrics.cse.msu.edu/RossFusion_AVBPA01.pdf

The Alternating Decision Tree Learning Algorithm - Freund, Mason (1999) (Correct) (8 citations) semantics for representing b) c) Figure 1: Tree-based classifiers: c) a general alternating tree. (c) a general alternating tree. a) a decision tree, b) the same decision tree represented as an is the prediction associated with the root of the tree. b) A base rule r with precondition d can be in the www.lsmason.com/papers/ICML99-AlternatingTrees.pdf

Multiway Range Trees: Scalable IP Lookup with Fast Updates - Suri, Varghese, Warkhede (2001) (Correct) (2 citations)

be generalized to a multiway search tree we use a B-tree>. In a B-tree>, each node other than the root has to a multiway search tree we use a B-tree>. In a B-tree>, each node other than the root has at least t www.cs.ucsd.edu/~varghese/PAPERS/globecom2001.pdf

<u>Implementing I/O-Efficient Data Structures Using TPIE - Arge, Procopiuc, Vitter (2002)</u> (Correct) (1 citation)

been implemented in the second phase, including B-trees [12]persistent B-trees [9]R-trees [10] second phase, including B-trees [12]persistent B-trees [9]R-trees [10]CRB-trees [1]K-D-B-trees a data structure using TPIE. We chose the K-D-B-tree> because it is a relatively simple yet typical www.cs.duke.edu/%7Elarge/Papers/tpieds.ps

<u>Scalable Integrated Region-based Image Retrieval using IRM and.. - Wang, Du (2001) (Correct)</u> (1 citation)

using various tree structures such as K-D-B-tree> [28]quadtree [9] R-tree [11]tree [31] V, pp. 161-64, 1993. 28] J. Robinson, The k-d-b-tree>: A search structure for large multidimensional www-db.stanford.edu/~wangz/project/imsearch/SIMPLIcity/DL2001/wang2.pdf

<u>Purely Functional Representations of Catenable Sorted Lists - Kaplan, Tarjan (1996) (Correct)</u> (7 citations)

is an ordinary balanced search tree (like an a,b-tree> for example) in which each node along the left described could be modified to use any kind of a,b-trees. Particularly interesting is a relation between returns a tree of the same height as its input tree but it may return a tree in which the root has www.math.tau.ac.il/~haimk/papers/loglog23.ps

Incremental Processing of Vague Queries in Interactive.. - Pfeifer, Pennekamp (1994) (Correct) (3 citations)

for example be processed very efficiently using a B*tree> for the date attribute. For the string by the graph in figure 1. The DATE node uses a B*tree>, the AUTHOR node interfaces to a special string ls6-www.informatik.uni-dortmund.de/bib/fulltext/ir/./Pfeifer Pennekamp:97.pdf

<u>Probabilistic Top-Down Parsing and Language Modeling - Roark (Correct) (3 citations)</u>
Figure 1 Three parse trees: a) a complete parse tree b) a complete parse tree with an explicit stop Geman (1998) proved that any PCFG estimated from a treebank with the relative frequency estimator is First, it is easily reversible, i.e.every parse tree built with Gf corresponds to a unique parse tree



Bitmap Indices for Speeding Up - High-Dimensional Data Analysis (Correct)
optimised for one-dimensional queries such as the Btree whereas others are optimised for
S. Berchtold, C. Boehm, H.P. Kriegel, The Pyramid-Tree: Breaking the Curse of D imensionality, SIGMOD kurts.home.cern.ch/kurts/PHD/../RESEARCH/dexa2002_bitmaps.ps

The Rectilinear Steiner Arborescence Problem is NP-Complete - Chen (Correct)

Arborescence (a)a Rectilinear Steiner Minimum Tree (b)and a Rectilinear Minimum Spanning Tree (c) ece.tamu.edu/~wshi/pub/soda.pdf

Slicing Floorplan with Clustering Constraint - Yuen And Evangeline (Correct)
[5]boundsliceline -grid(BSG) 6]O-tree [2]B tree> [1] and TCG [4]have been proposed for
Y. C. Chang, Y. W. Chang, G. M. Wu, and S. W. Wu. B*trees: A new representation for non-slicing
www.cse.cuhk.edu.hk/~fyyoung/paper/tcad5.ps

Versioned Backups and Index Concurrency - Results Of Work-In-Progress (Correct) of a full temporal index, the Time-Split B-tree> [LoSa1, LoSa2] or TSB-tree with that of a fuzzy new method will undoubtedly be in its use in B trees, it can be extended to other structures. In nodes are split bottom up like those of a B tree>, but can be split either by time or by key. When ftp.research.microsoft.com/users/lomet/pub/newhpts.ps

<u>Dynamically Partitioned Test Scheduling for SoCs Under Power.. - Zhao, Upadhyaya</u> (Correct) partitioning a test session T2 T1 Time Power (b) tree> growing technique a test session T1 T2 T3 Time www.cse.buffalo.edu/~shambhu/resume/natw02.pdf

Spatial Lesion Indexing for Medical Image Databases Using.. - Histograms Chi-Ren Shyu (Correct) for objects in two to three dimensional spaces: B-trees [5]R-trees [8]and their variants [2, 20, 21, gray-scale, etc. These tree structures include K-D-B tree> [18]Metric tree [25] and Multihash indexing www.cecs.missouri.edu/~matsakis/Publications/CVPR01.pdf

The BUB-Tree - Robert Fenk Fenk (Correct)

separators of Z-regions in the index part of the B-Tree> it stores Z-intervals bounding the data stored on data, which inherits all good properties of the B-Tree> [BM72]Logarithmic performance guarantees are problem of the UB-Tree, we propose the bounding UB-Tree (BUB-Tree)an UBTree storing additional mistral.in.tum.de/results/publications/Fen02b.pdf

Mixed-Integer Nonlinear Programming - Armin (Correct)

or RMINLP)Moreover, each node of the emerging B&B tree> represents a solution of the RMINLP with adjusted

www.gamsworld.org/minlp/siagopt.pdf

A Note on Parallel Algorithms for Optimal h-v Drawings of - Binary Trees Panagiotis (Correct) i shows three different h-v drawings of the same tree. b e c g c) a) b) d) Figure 1: A binary tree www.wellesley.edu/CS/pmetaxas/CGTA98.pdf

Compressing Bitmap Indexes for Faster Search - Operations Kesheng Wu (Correct) schemes [6]21]30]such as the variants of B-tree> [9] or R-tree [11]According to the performance for most database systems. For example, if a B-tree> index is created for each attribute, ORACLE applications, bitmap indexes are better than the tree based schemes [6]21]30]such as the variants crd.lbl.gov/~kewu/ps/LBNL-49627.pdf

European Organization For Nuclear Research Cern/Ihcc 97-9.. - April Using An (Correct) 18.1 B-Tree>

of indices on selective analysis attributes. 18.1 B-Tree> Indices Indices are a way to cluster one or more number of objects in the tree, this means that a tree based search will scale much better than a wwwinfo.cern.ch/asd/rd45/reports/m3 96/milestone 3.ps

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B+ Tree Indexes with Hybrid Row Identifiers in Oracle 8i

Proceedings of the 17th International Conference on Data Engineering table of contents Source

Pages: 341 - 348

Year of Publication: 2001 ISBN:0-7695-1001-9

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Oracle8i Index-Organized Table and Its Application to New Domains

Proceedings of the 26th International Conference on Very Large Data Bases table of contents Source

Pages: 285 - 296

Year of Publication: 2000 ISBN:1-55860-715-3

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17th International Conference on Data Engineering. April 02 - 06, 2001. Heidelberg, Germany, p. 0341 **B+-Tree** Indexes with Hybrid Row Identifiers in Oracle8i. PDF. ... www.computer.org/proceedings/icde/1001/10010341abs.htm - 12k - <u>Cached</u> - <u>Similar pages</u>

CS432 Assignment 2: B+ Tree

CS432 - Fall 2001 Assignment 3 - **B+-Tree** Deadline: October 23, 23:59pm. ... Goal In this assignment, you are asked to implement a **B+-tree** index file. ... www.cs.cornell.edu/courses/cs432/ 2001fa/a3%5Cindex.html - 30k - Cached - Similar pages

[PPT]Multilevel Security Index B+ Tree

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Multilevel Security Index **B+ Tree**. Nayot Poolsappasit. ... Close (all) channels from which the message can be leaked. **B+ Tree** Index: Models. Model: ... www.cs.colostate.edu/~iray/teach/cs681/nayot.ppt - Similar pages

[PPT]B+-tree and Hashing

File Format: Microsoft Powerpoint 97 - <u>View as HTML</u> **B+-tree** and Hashing. Model of Computation. Data stored on disk(s). ... **B+-tree**. Records can be ordered over an attribute,. SSN, Name, etc. ... cs-www.bu.edu/faculty/gkollios/ ada01/LectNotes/lect2.ppt - Similar pages

Build a B+-tree

b+-tree

... The B + -tree (sometimes written **B+-tree**, B+tree, or just B-tree) is a variant of the original B-tree in which all records are stored in the leaves and all ... www.cs.duke.edu/~tavi/btree/ - 6k - <u>Cached</u> - <u>Similar pages</u>

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A mapping mechanism to support bitmap index and other auxiliary ...

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... various auxiliary structures on primary B + -trees ... efficient, and (despite the mapping

table overhead) provides ... Tran , Ramkumar Krishnan, B+ Tree Indexes with ... portal.acm.org/ citation.cfm?

id=777000&jmp=abstract&dl=ACM&dl=ACM&CFID=11111111&CFTOKE... -Similar pages

[PDF]A Mapping Mechanism to Support Bitmap Index and Other Auxiliary ...

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... The translation from the **primary** key to the **mapping table** row identifier is efficiently

done by primary key lookup on the primary B + -tree structure, which ... www.acm.org/sigmod/record/issues/ 0306/D3-Industry-echong.pdf - Similar pages

Tree Mapping

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[PPT]Sabre Lab Reporting

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... Ausgewählte Betriebssysteme - NT File System 5 Partition Table • 4 partitions defined in MBR • Primary or extended partitions • Extended partition ...

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... factors against using a fine-grained approach as the primary address translation ... is likely to significantly increase the size of the mapping table, making it ...

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[boc] These are REVISONS of the notes I gatherer in preparation for my ...

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... Partition by: key range, relative record number, or RBA (entry sequence files). B+ tree primary index, B* tree secondary index. Index partition just like table. ...

[PS]Multi-Dimensional Bitmap Indices for Optimising Data Access ...

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... rectangle as the primary key. ... O(|T ||A|) (3.3) In contrast, the worst case for building a B+-tree is given by: ... 1. Mapping Table a 00 b 01 c 10 d 11. ...

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_[Doc]Chapter 2 – Background

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... that the joining attribute be the primary key of ... chapter, we will be examining the

B+-tree structure, hereafter ... use of bitmap vectors, a mapping table, and a ...

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